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Attorney's Docket No.: 14875-132US1 / C1-A0112P-US

PCT

10/500184

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sugo et al.  
Serial No. : 10/500,184  
Filed : June 25, 2004  
Title : METHOD FOR STABILIZING PROTEINS

Art Unit : Unknown  
Examiner : Unknown

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants submit references listed on the attached form PTO-1449. Copies of references AE and AG to AM listed on the attached form are enclosed. A copy of the International Search Report in a counterpart foreign application is also enclosed. References AD, AF, and AN are not enclosed because they were cited in the International Search Report. Therefore, copies of these references should have been forwarded to the Office by WIPO. Reference AC is not provided as it is in the same patent family as reference AD. This statement is being filed before the receipt of a first Office Action on the merits. No fee is believed to be due. Please apply any charges or credits to Deposit Account No. 06-1050, referencing Attorney Docket No. 14875-132US1.

Respectfully submitted,

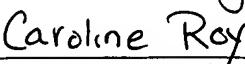


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Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-132US1	Application No. 10/500,184
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Sugo et al.	
		Filing Date June 25, 2004	Group Art Unit

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,994,511	11/30/1999	Lowman et al.			
	AB	6,172,213	01/09/2001	Lowman et al.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AC	WO 99/51743A1	October 14, 1999	PCT				
	AD	EP 1069185 A1	January 17, 2001	EPO				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AE	Bischoff and Kolbe, "Deamidation of Asparagine and Glutamine Residues in Proteins and Peptides: Structural Determinants and Analytical Methodology," <u>Journal of Chromatography B</u> , 662:261-278 (1994).
	AF	Blanche et al., "Stabilization of Recombinant Adenovirus: Site-Directed Mutagenesis of Key Asparagine Residues in the Hexon Protein," <u>Analytical Biochemistry</u> , 297:1-9 (2001).
	AG	Cacia et al., "Isomerization of an Aspartic Acid Residue in the Complementarity-Determining Regions of a Recombinant Antibody to Human IgE: Identification and Effect on Binding Affinity," <u>Biochemistry</u> , 35:1897-1903 (1996).
	AH	Chothia and Lesk, "Canonical Structures for the Hypervariable Regions of Immunoglobulins," <u>Journal of Molecular Biology</u> , 196:901-917 (1987).
	AI	Chothia et al., "Structural Repertoire of the Human V <sub>H</sub> Segments," <u>Journal of Molecular Biology</u> , 227:799-817 (1992).
	AJ	Harris et al., "Identification of Multiple Sources of Charge Heterogeneity in a Recombinant Antibody," <u>Journal of Chromatography B</u> , 752:233-245 (2001).
	AK	Robinson and Robinson, "Deamidation of Human Proteins," <u>Proceedings of the National Academy of Sciences USA</u> , 98:12409-12413 (2001).
	AL	Robinson and Robinson, "Molecular Clocks," <u>Proceedings of the National Academy of Sciences USA</u> , 98:944-949 (2001).
	AM	Scotchler et al., "Deamidation of Glutamyl Residues: Dependence on pH Temperature, and Ionic Strength," <u>Analytical Biochemistry</u> , 59:319-322 (1974).
	AN	Tomizawa et al., "Stabilization of Lysozyme Against Irreversible Inactivation by Alterations of the Asp-Gly Sequences," <u>Protein Engineering</u> , 8:1023-1028 (1995).

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	